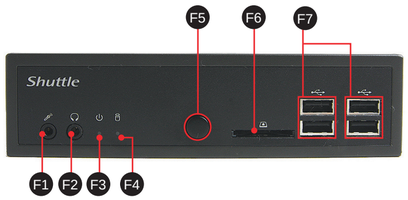
62R-DS8100-0601
English.Spanish.Korean.
Traditional Chinese.Japanese.
French. German Quick Guide

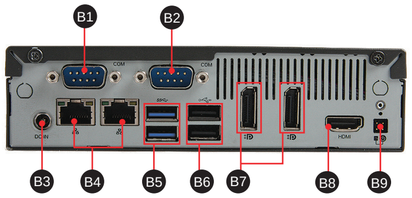
DS81 Series Quick Guide 【 English 】

Front Panel



F1. Mic-In
F2. Headphone
F3. Power LED
F4. HDD LED
F5. Power Button
F6. Card reader
F7. USB2.0 Ports

Back Panel



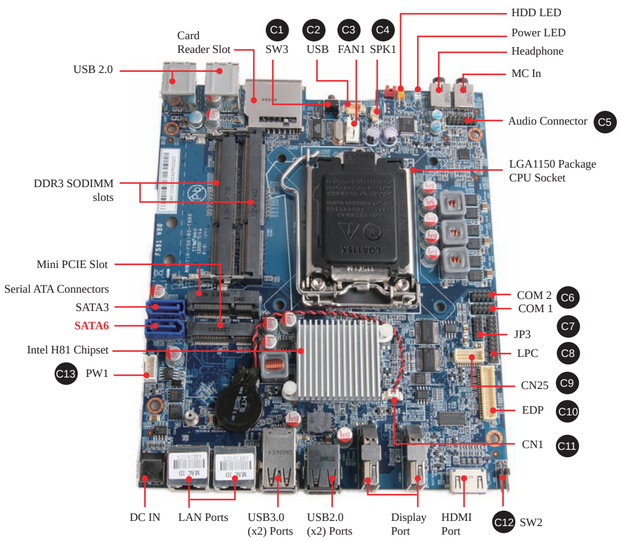
B1. COM1 Port (RS232/RS422/RS485)
B2. COM2 Port (RS232 only)
B3. Power Jack (DC-in)
B4. LAN Ports
B5. USB3.0 Ports
B6. USB2.0 Ports
B7. DisplayPort
B8. HDMI Port
B9. Clear CMOS&POWER BUTTON

Left / Right Panel

Kensington® Lock Port

Kensington® Lock Port

Motherboard Illustration



Jumper Settings

C1 Power Button (SW3)

C2 USB Connector

Pin Assignments :
1=GND
2=USB10P
3=USB10N
4=USBPW04

C3 Fan Connector

Pin Assignments (FAN1):
1=GND
2=+12V
3=SPEED_SENSE
4=PWM_CTRL

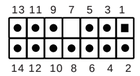
C4 SPK1

Pin Assignments (CN1):
1=SPKR_OUT
2=GND

C5 Audio Connector

Pin Assignments (AUDIO2):

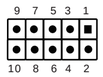
1=PULL AGND	2=LINE-R
3=NC	4=LINE-L
5=PULL AGND	6=FRONT_L
7=NC	8=FRONT_SENSE
9=PULL AGND	10=FRONT_R
11=BK_AUDIO-JD	12=MIC1_R
13=AGND	14=MIC1_L



C6 COM PORT

Pin Assignments (COM1&COM2):

1=DCD	2=RX
3=TX	4=DTR
5=GND	6=DSR
7=RTS	8=CTS
9=RI	10=NC

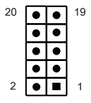


C7 Support RS232 Back panel Independent External Power 12V / 5V

(DEFAULT=SHORT 1-2,3-4)
IF JUMP1 Connector Pin 5 and Pin 7 = COM1 is +5V
IF JUMP2 Connector Pin 6 and Pin 8 = COM2 is +5V
IF JUMP1 Connector Pin 7 and Pin 9 = COM1 is +12V
IF JUMP2 Connector Pin 8 and Pin 10 = COM2 is +12V

Pin Assignments (JP3):

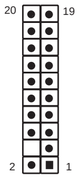
1=-XRI1	2=COM_-XRI1
3=-XRI2	4=COM_-XRI2
5=+5V	6=+5V
7=COM1_PWR	8=COM2_PWR
9=+12V	10=+12V



C8 LPC connector

Pin Assignments (LPC1):

1=CLK-33M	11=L_AD0
2=GND	12=GND
3=LFRAME	13=LPC_48M
4=NC	14=PCH_PME-
5=SIORST#	15=+3.3VS
6=-XRI3	16=SERIRQ
7=L_AD3	17=GND
8=L_AD2	18=+3.3V
9=+3.3V	19=+3.3V
10=L_AD1	20=SUS_CLK



➢ Safety Information

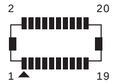
Read the following precautions before setting up a Shuttle XPC.

CAUTION
Incorrectly replacing the battery may damage this computer.
Replace only with the same or equivalent as recommended by Shuttle.
Dispose of used batteries according to the manufacturer's instructions.

C9 VGA Connector

Pin Assignments (CN25):

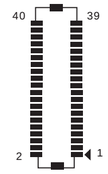
1=GND	11=CRT_HSYNC_R
2=GND	12=GND
3=SDVO_CLK_D	13=GND
4=GND	14=GND
5=SDVO_DATE_D	15=BOUT-O
6=GND	16=VGA_PWR
7=GND	17=GOUT-O
8=GND	18=VGA_PWR
9=CRT_VSYNC_R	19=ROUT-O
10=GND	20=VGA_PWR



C10 EDP Connector V1.0

Pin Assignments:

1=PANEL_VDD	21=NC
2=CAD_56B	22=D3+_56B_C
3=PANEL_VDD	23=GND
4=HPD_56B_C	24=GND
5=PANEL_VDD	25=INV_PWR_SRC
6=NC	26=D2-_56B_C
7=PANEL_VDD	27=INV_PWR_SRC
8=NC	28=D2+_56B_C
9=PANEL_VDD	29=INV_PWR_SRC
10=NC	30=GND
11=GND	31=INV_PWR_SRC
12=GND	32=D1-56B_C
13=EDP_BKLTCTL	33=INV_PWR_SRC
14=AUX-_56B_C	34=D1+56B_C
15=EDP_BKLTEN	35=GND
16=AUX+_56B_C	36=GND
17=GND	37=NC
18=GND	38=D0-_56B_C
19=NC	39=NC
20=D3-_56B_C	40=D0+_56B_C



C11 Battery connector

Pin Assignments (CN1):
1=V_BAT
2=GND

C12 Clear CMOS&POWER BUTTON

Pin Assignments (SW2):
1=RTCRST-
2=+5V
3=GND
4=PWRSW-

C13 SATA POWER connector

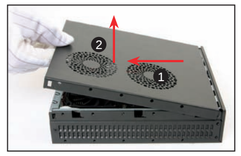
Pin Assignments (PW1):
1=GND
2=GND
3=+5V
4=+5V

A. Begin Installation

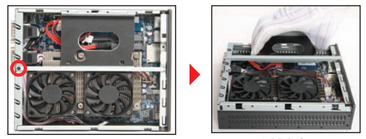
⚠ For safety reasons, please ensure that the power cord is disconnected before opening the case.

1. Unscrew the two screws of the chassis cover.

2. Slide the cover backwards and upwards.



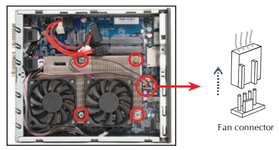
3. Unfasten the rack mount screw and remove the rack.



HDD Rack

B. CPU and ICE Module Installation

1. Unfasten the four ICE module attachment screws and unplug the fan connector.

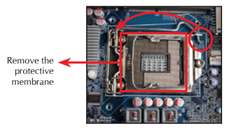


2. Remove the ICE module from the chassis and put it aside.

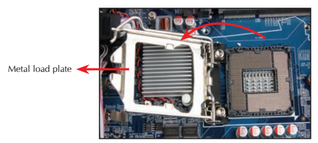
⚠ Please note this 1150 pin socket bends easily. Always apply extreme care and little force when installing a CPU and limit the number of times you remove or exchange it. Before installation, make sure to turn off the computer and unplug the power cord from the mains to avoid damage.

➢ Follow the steps below to correctly install the CPU into the motherboard CPU socket.

3. Tear off the protective membrane first, then unlock and raise the socket lever.

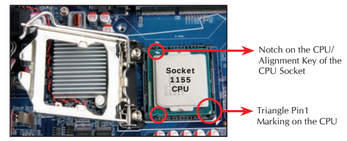


4. Lift the metal load plate on the CPU socket.



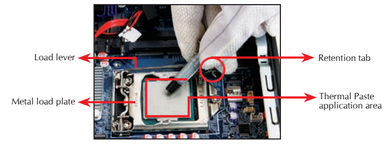
⚠ DO NOT touch socket contacts. To protect the CPU socket, always replace the protective socket cover when the CPU is not installed.

5. Orientate the CPU and socket and please align the CPU notches with the socket alignment keys. Make sure the CPU is perfectly horizontal, insert it into the socket.



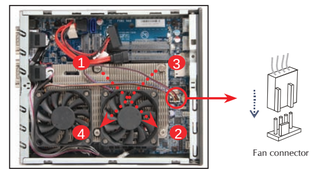
⚠ Please be aware of the CPU orientation, DO NOT force the CPU into the socket to avoid bending of pins on the socket and damage of CPU!

6. Close the metal load plate, lower the CPU socket lever and lock in place.
7. Spread thermal paste evenly on the CPU surface.



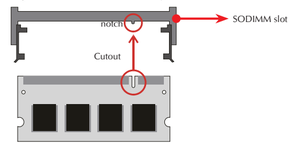
⚠ Please do not apply excess amount of thermal paste.

8. Screw the ICE module to the mainboard. Note to press down on the opposite diagonal corner while tightening each screw.
9. Connect the fan connector.

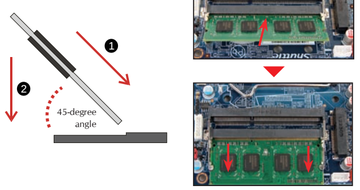


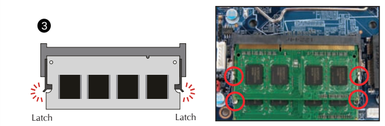
C. Memory Module Installation

1. Locate the SODIMM slot on the mainboard.
2. Align the notch of the memory module with the one of the memory slot.



3. Gently insert the module into the slot in a 45-degree angle.
4. Carefully push down the memory module until it snaps into the locking mechanism.

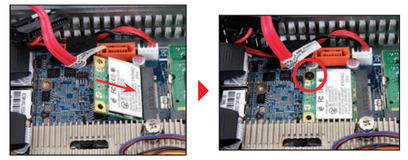




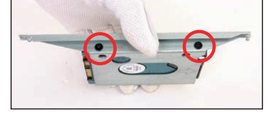
5. Repeat the above steps to install additional memory modules, if required.

D. Component Installation

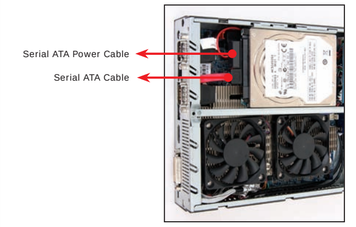
1. Install the Mini PCIE card into the Mini PCIE slot and secure with screw.



2. Place the HDD in the rack and secure with the four screws from the side.



3. Connect the Serial ATA and power cables to the HDD.



4. Slide the rack in the chassis and refasten the screw.

E. Complete

1. Replace the cover and refasten the screws.

2 . Complete.

⚠ Please load the optimized BIOS settings.

The product's color and specification will depend on the actual shipping product.

53R-DS8103-2001